

Title (en)

Equipment for limitation of fault current in 3-phase networks

Title (de)

Anordnung zur Begrenzung des Kurzschlussstromes in 3-phasigen Drehstromnetzen

Title (fr)

Dispositif pour la limitation de courant de court-circuit en réseau triphasé

Publication

**EP 0757421 A3 19980211 (DE)**

Application

**EP 96110563 A 19960629**

Priority

DE 19526062 A 19950717

Abstract (en)

[origin: US5748423A] An arrangement (1) for limiting the short-circuit current in a three-phase electric power line connected with one or more motors/generators (2) in which in each power line phase (3) leading to the generator/motor (2) at least one pair of series switches (4) are disposed, which are formed by semiconductor switch elements connected in anti-parallel, and in the section between the series switches (4) and the generator/motor (2) elements such as short-circuiting switches (6) are disposed which in case of a short-circuit cause the current of the generator (2) to be shunted away such that the operation of the series switches (4) is assured and the current cannot get into the power line. With the very simple structure of the system, very fast switching times are achieved.

IPC 1-7

**H02H 9/00**

IPC 8 full level

**H02H 9/02** (2006.01); **H02H 3/02** (2006.01); **H02H 7/06** (2006.01); **H02H 7/26** (2006.01); **H02H 9/00** (2006.01); **H02H 9/08** (2006.01); **H02P 3/22** (2006.01)

CPC (source: EP US)

**H02H 3/023** (2013.01 - EP US)

Citation (search report)

- [A] DE 4419945 A1 19950202 - SCHUCK HANS LUDWIG DIPL ING [DE]
- [A] DD 146727 A1 19810225 - HEROLD GERHARD, et al
- [A] DD 135664 A1 19790516 - HEROLD GERHARD, et al
- [A] DE 3842920 A1 19890706 - BBC BROWN BOVERI & CIE [CH]
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Designated contracting state (EPC)

AT BE DE DK ES FR GB IT NL SE

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**US 5748423 A 19980505**; AT E225094 T1 20021015; DE 19526062 A1 19970123; DE 59609716 D1 20021031; EP 0757421 A2 19970205; EP 0757421 A3 19980211; EP 0757421 B1 20020925; JP H09121448 A 19970506

DOCDB simple family (application)

**US 68225796 A 19960717**; AT 96110563 T 19960629; DE 19526062 A 19950717; DE 59609716 T 19960629; EP 96110563 A 19960629; JP 19270596 A 19960704